

U.S. Patent Application Serial No. 10/711,782
Response to Office Action dated September 27, 2006

IN THE ABSTRACT:

Please delete the current Abstract and replace therewith the attached substitute Abstract.

ABSTRACT OF THE DISCLOSURE:

A DC current is supplied to the write coil of a GMR head 1 equipped with a completed HGA (Head Gimbal Assembly). The element part of the GMR head 1 is thereby thermally deformed. Thus deformed, the element part protrudes, abutting on a rotating laser-bump disk 2, above which the HGA is floating. When the element part abuts on the disk 2, a magnetic field (2470 gauss) that extends in a direction opposite to the magnetization direction of the fixed layer of the GMR head 1 is applied to the top of a core slider 5.